Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A laparoscopic bipolar electrosurgical instrument for sealing tissue, comprising:

a handle having an elongated tube affixed thereto, the tube including first and second jaw members attached to a distal end thereof, <u>each of</u> the jaw members being movable <u>about a pivot</u> from a first position for approximating tissue to at least one subsequent position for grasping tissue therebetween, each of the jaw members including an electrically conductive sealing surface, the handle including a fixed handle and a movable handle, the movable handle being movable relative to the fixed handle to effect movement of the jaw members from the first position to the at least one subsequent position for grasping tissue;

means for connecting the jaw members to a source of electrosurgical energy such that the opposable seal surfaces are capable of conducting electrosurgical energy through tissue held therebetween, wherein the means for connecting includes a pushrod for connecting the first jaw member to a source of electrosurgical energy;

a stop for maintaining a minimum separation distance of at least about 0.03 millimeters between opposable sealing surfaces, the stop being located distally relative to the pivot; and

means for maintaining a closure force in the range of about 3 kg/cm² to about 16 kg/cm² between opposable sealing surfaces.

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2. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 1, wherein the means for connecting includes:

a conductive tube for connecting the second jaw member to the source of

electrosurgical energy.

3. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 1, wherein the means for maintaining includes a ratchet disposed within the

fixed handle and at least one complimentary interlocking mechanical interface disposed

on the movable handle, the ratchet and the complimentary interlocking mechanical

interface providing at least one interlocking position for maintaining a closure force

within the range of about 7 kg/cm² to about 13 kg/cm² between opposable sealing

surfaces.

4. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 1, wherein the closure force is in the range of about 4 kg/cm² to about 6.5

kg/cm².

5. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 1, wherein the stop is disposed on at least one of the sealing surfaces.

6. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 1, wherein the stop is disposed adjacent to at least one of the sealing surfaces.

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7. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 1, wherein the stop maintains a minimum separation distance between sealing

surfaces in the range of about 0.03 millimeters to about 0.16 millimeters.

8. (Currently amended) A laparoscopic bipolar electrosurgical instrument for sealing

tissue, comprising:

a handle having an elongated tube affixed thereto, the tube including first

and second jaw members attached to a distal end thereof, each of the jaw

members being movable about a pivot from a first position for approximating

tissue to at least one subsequent position for grasping tissue therebetween, each

of the jaw members including an electrically conductive sealing surface, the

handle including a fixed handle and a movable handle, the movable handle

being movable relative to the fixed handle to effect movement of the jaw

members from the first position to the at least one subsequent position for

grasping tissue, the opposable sealing surfaces including a non-stick material for

reducing tissue adhesion during the sealing process;

means for connecting the jaw members to a source of electrosurgical

energy such that the opposable sealing surfaces are capable of conducting

electrosurgical energy through tissue held therebetween, wherein the means for

connecting includes a pushrod for connecting the first jaw member to a source of

electrosurgical energy;

a stop disposed on one of the opposable sealing surfaces for maintaining

a minimum separation distance between the opposable sealing surfaces, the

stop being located distally relative to the pivot; and

a ratchet disposed on one of the fixed and movable handles and at least

one complimentary interlocking mechanical interface disposed on the other of

the fixed and movable handles, the ratchet and the complimentary interlocking

mechanical interface providing at least one interlocking position to maintain a

closure force in the range of about 3 kg/cm² to about 16 kg/cm² between

opposable sealing surfaces.

9. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 8, wherein the non-stick material is a coating which is deposited on the

opposable sealing surfaces.

10. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 8, wherein the non-stick coating is selected from a group of materials

consisting of: nitrides and nickel/chrome alloys.

11. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 8, wherein the non-stick coating includes at least one of: TiN; ZrN; TiAIN;

CrN: nickel/chrome alloys with a Ni/Cr ratio of approximately 5:1; Inconel 600; Ni200;

and Ni201.

12. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 8, wherein the opposable sealing surfaces are manufactured from a non-stick

material.

13. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 8, wherein the non-stick material is a nickel/chrome alloy.

14. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 8, wherein the non-stick material includes at least one of nickel/chrome alloys

with a Ni/Cr ratio of approximately 5:1, Inconel 600, Ni200 and Ni201.

15. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 8, wherein at least one of the jaw members, handles and elongated tube

includes an insulative material disposed thereon.

16. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 15, wherein the insulative material is an insulative coating.

17. (Previously presented) A laparoscopic bipolar electrosurgical instrument according

to claim 15, wherein the insulative material is an insulative sheath.